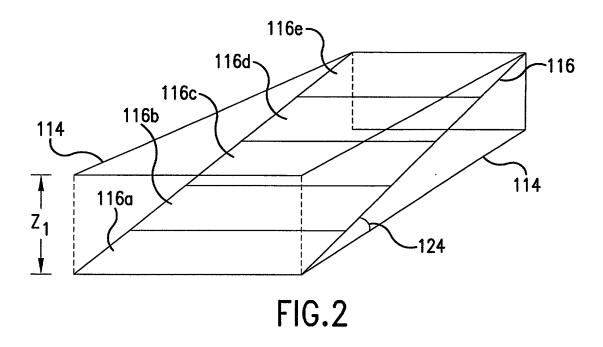
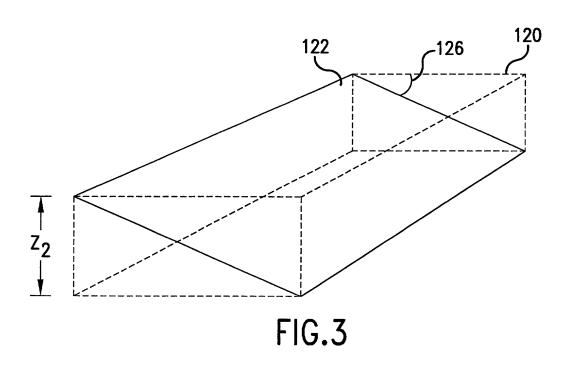
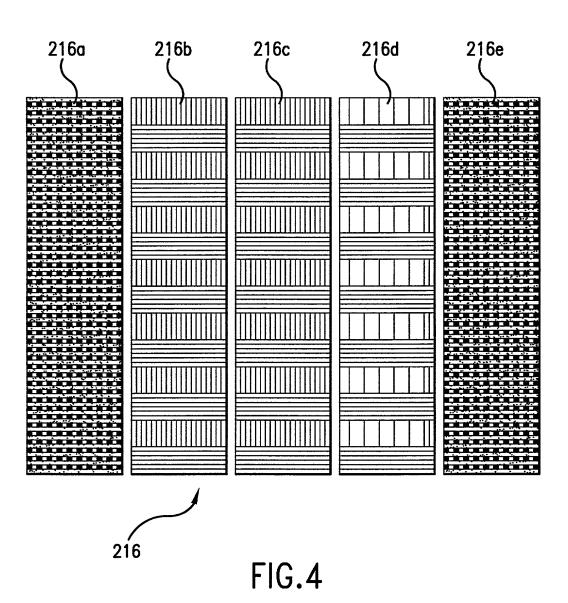
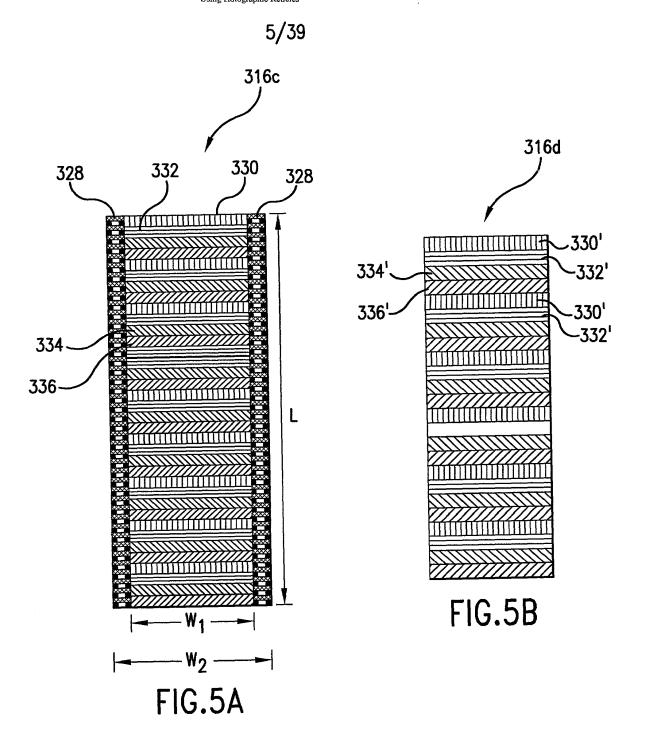


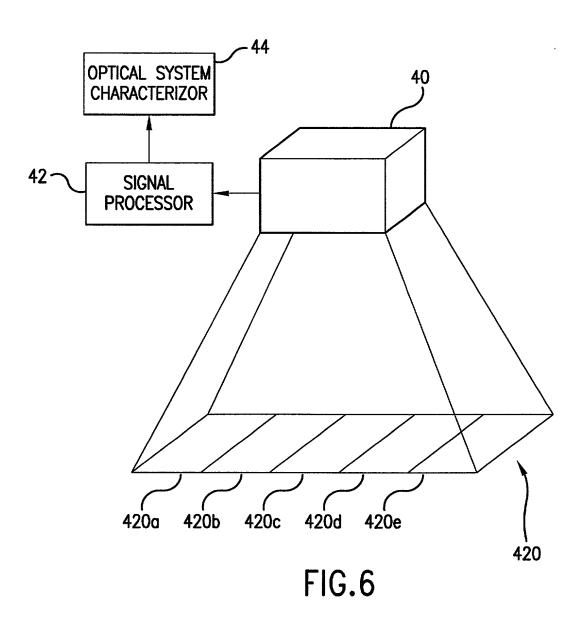
FIG.1B











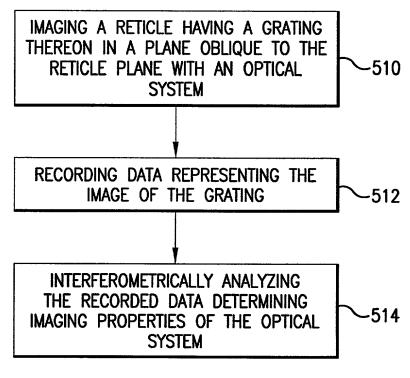
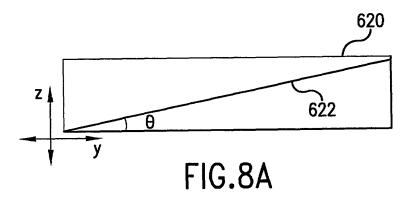
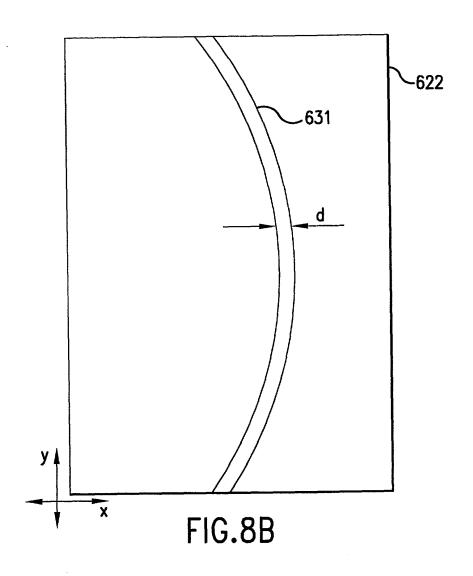
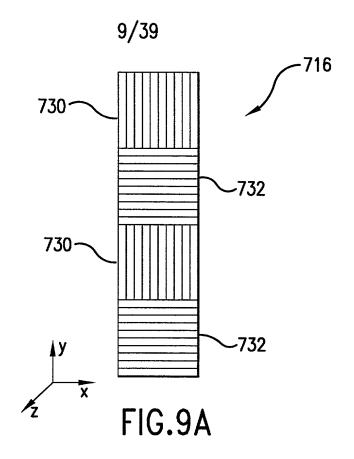
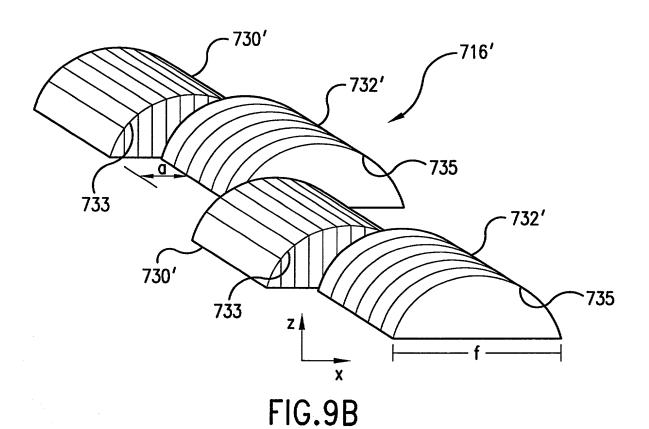


FIG.7









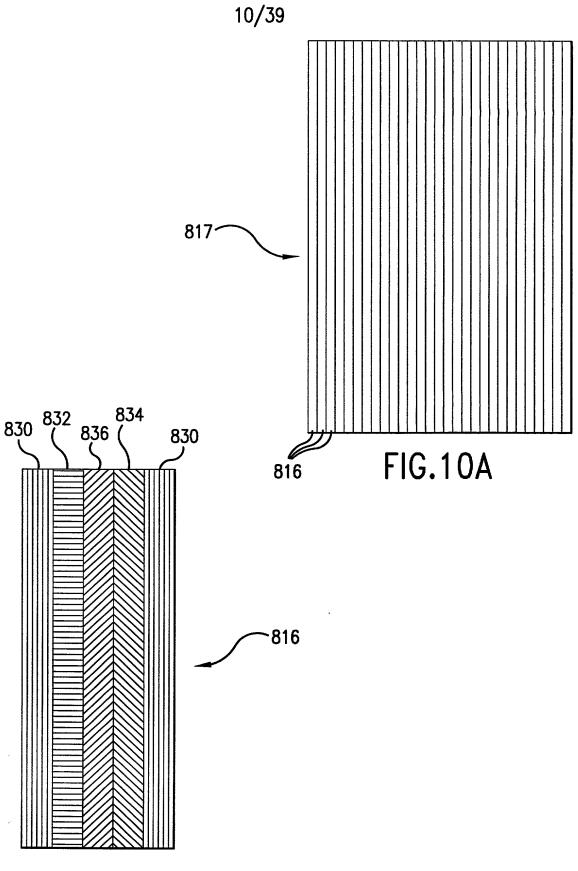
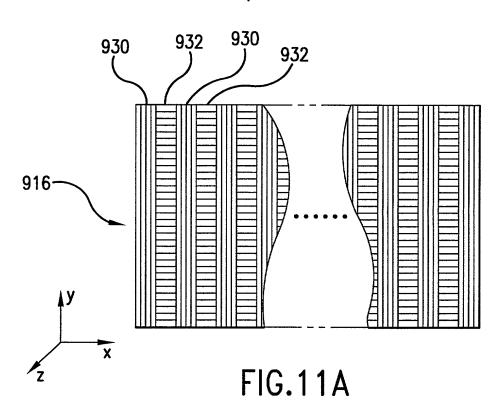
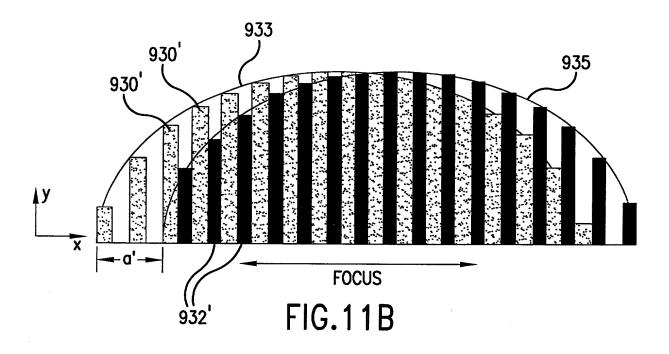


FIG.10B

Appl. No 09/907,902; Group Art Unit 2621 Dkt. No. 1875.0300001;

Inventor(s): Matthew E. Hansen; Tel: 202/371-2600 Title: System and Method for Characterizing Optical System Using Holographic Reticles





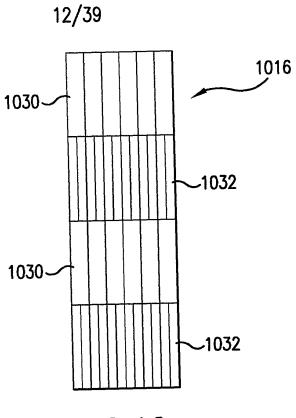
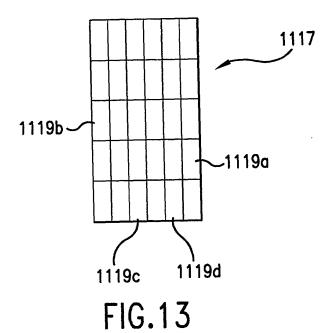


FIG.12



Appl. No. 09/907,902; Group Art Unit: 2621 Dkt. No. 1875.0300001; Inventor(s): Matthew E. Hansen; Tel: 202/371-2600

Inventor(s): Matthew E. Hansen; Tel: 202/371-2600
Title: System and Method for Characterizing Optical System
Using Holographic Reticles

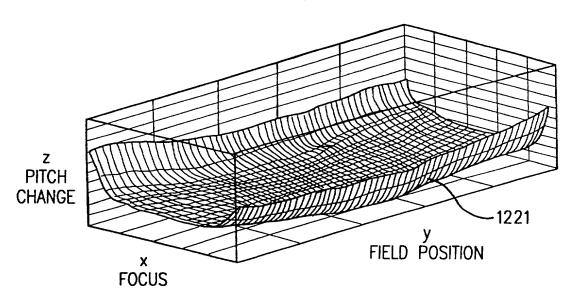


FIG. 14

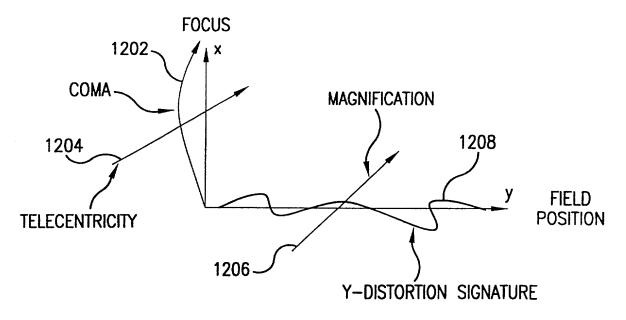


FIG.15

Appl. No. 09/907,902; Group Art Unit: 2621 Dkt. No. 1875.0300001;

Inventor(s): Matthew E. Hansen; Tel: 202/371-2600
Title: System and Method for Characterizing Optical System
Using Holographic Reticles

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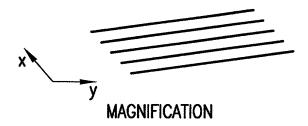
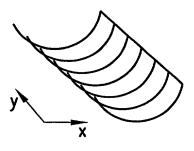


FIG.16A



COMA

FIG.16B

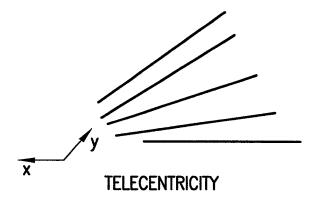
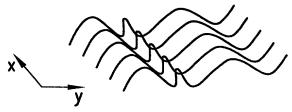


FIG.16C



Y-DISTORTION SIGNATURE

FIG.16D

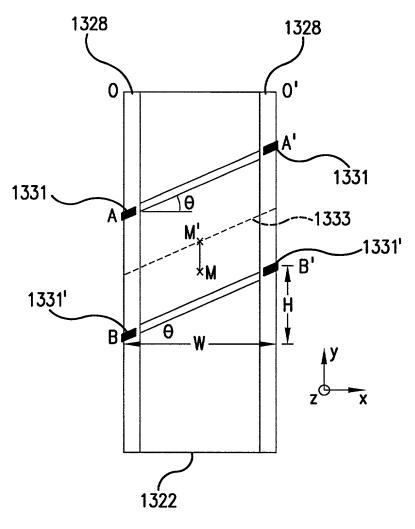
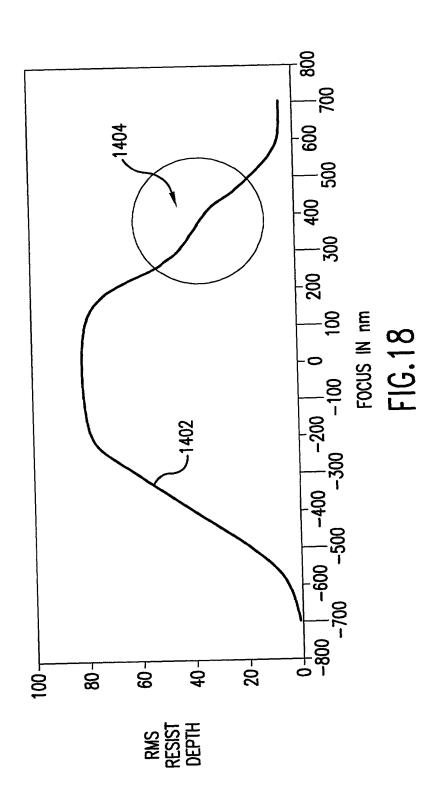
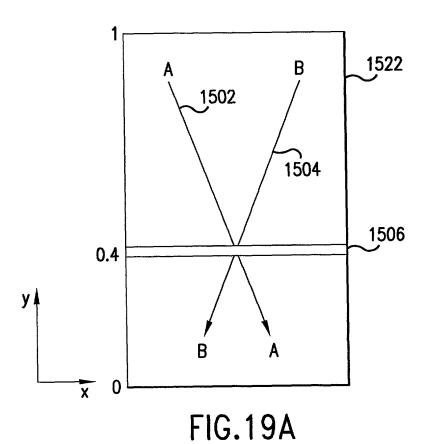
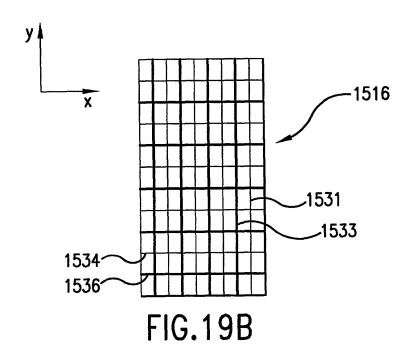


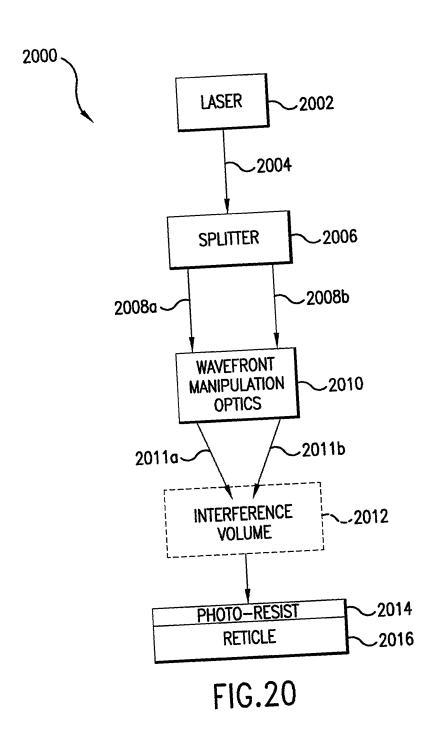
FIG.17











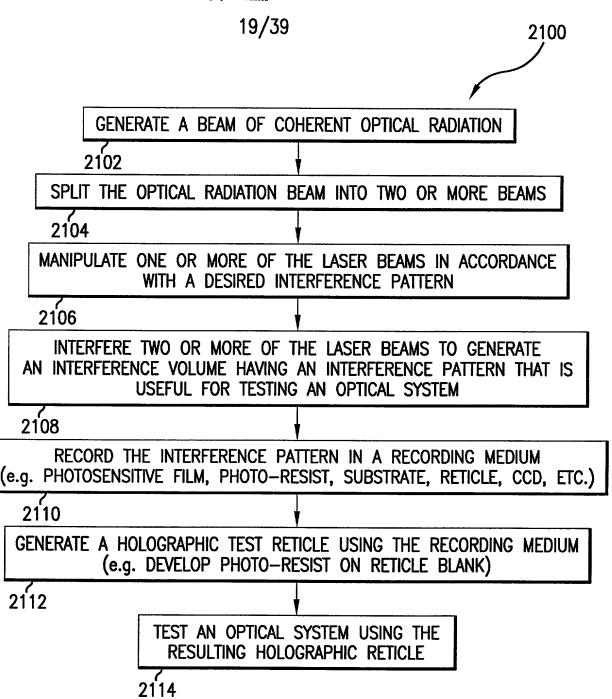
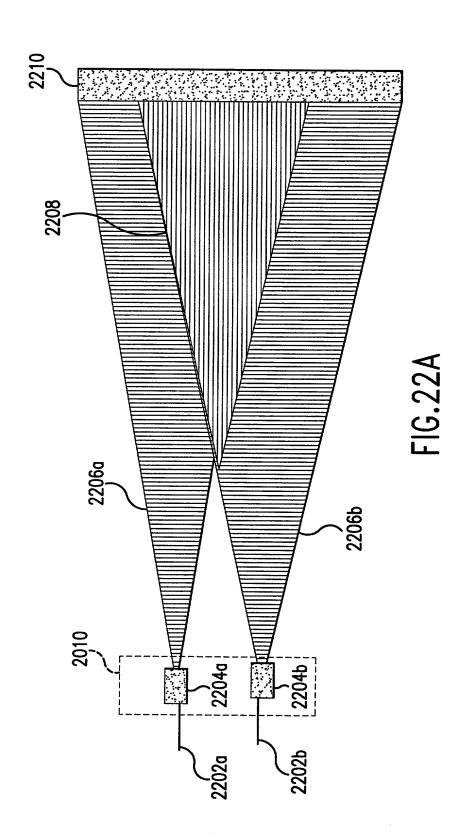


FIG.21



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Appl. No. 09/907,902; Group Art Unit: 2621 Dkt. No. 1875.0300001; Inventor(s): Matthew E. Hansen; Tel: 202/371-2600 Title: System and Method for Characterizing Optical System Using Holographic Reticles

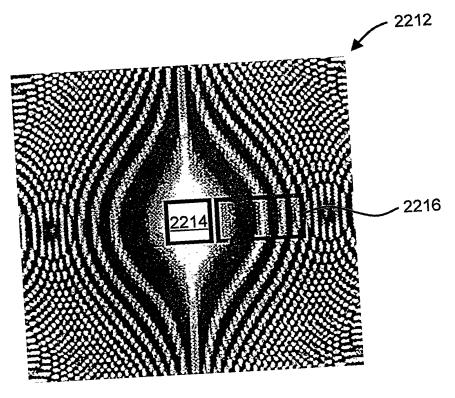
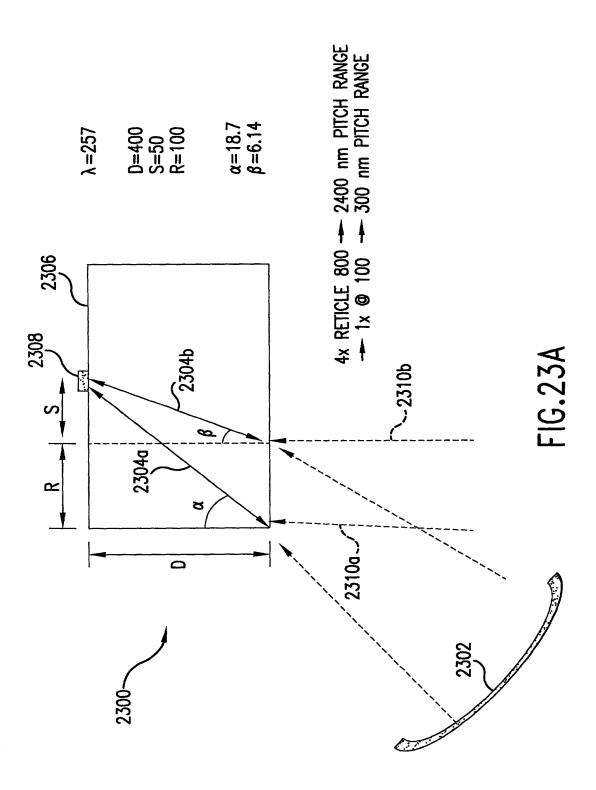


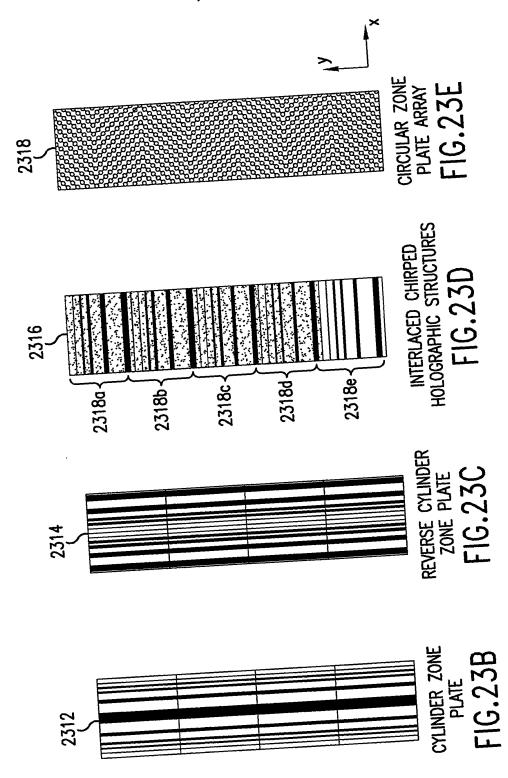
FIG.22B



Appl. No. 09/907,902; Group Art Unit: 2621 Dkt. No. 1875.0300001;

Inventor(s): Matthew E. Hansen, Tel: 202/371-2600
Title: System and Method for Characterizing Optical System

Using Holographic Rencles



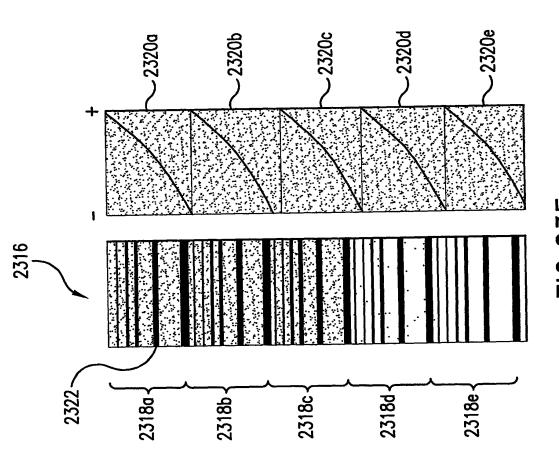


FIG.23F

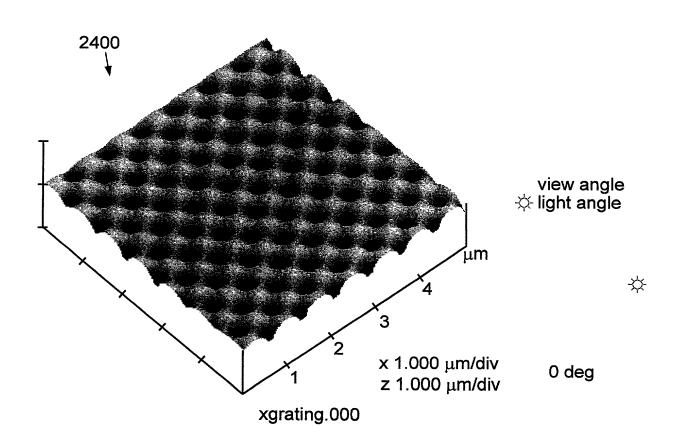


FIG.24

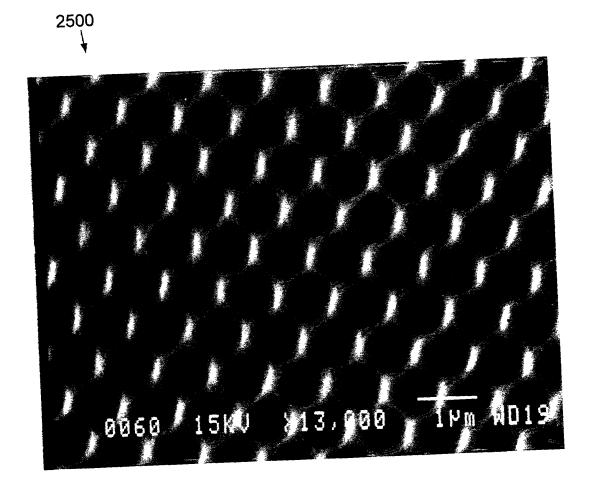


FIG.25

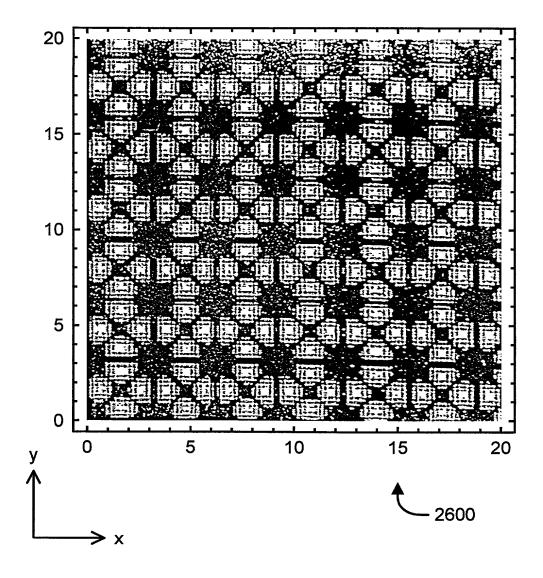


FIG.26



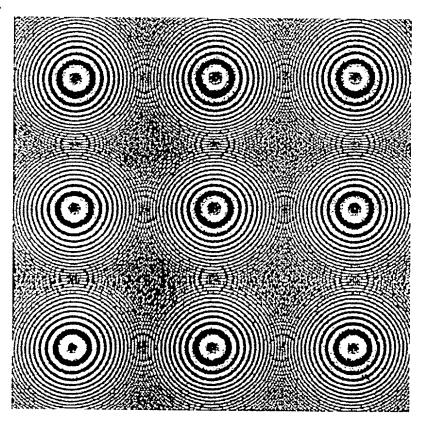
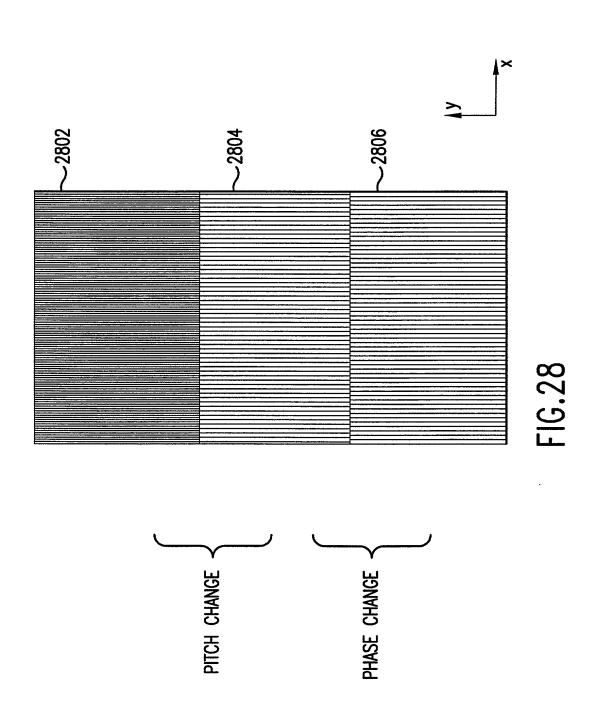


FIG.27



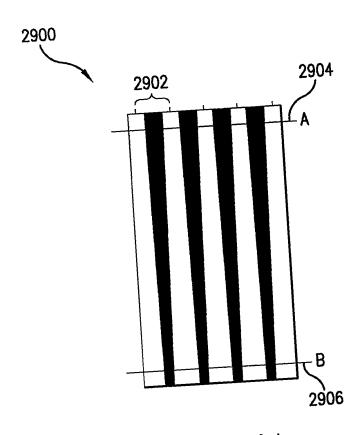
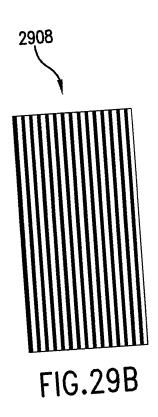
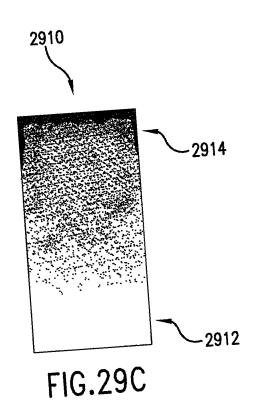
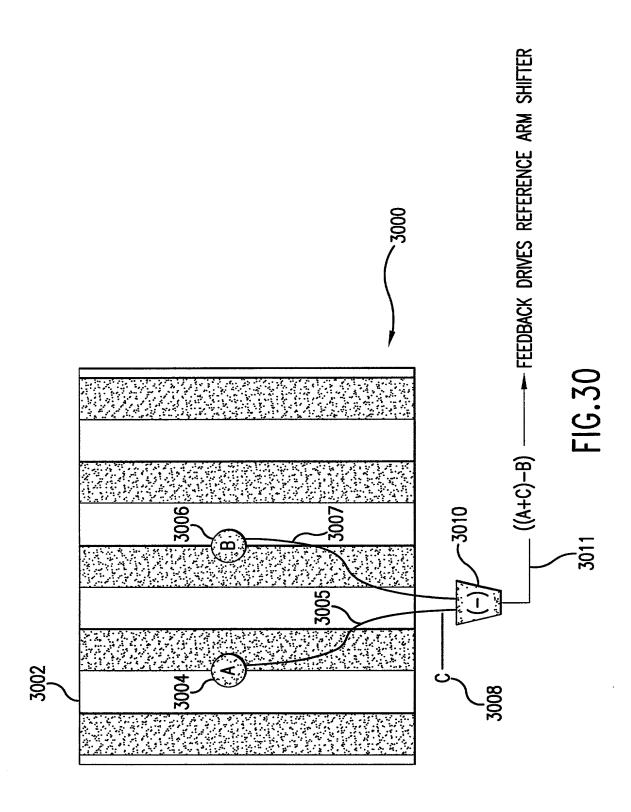
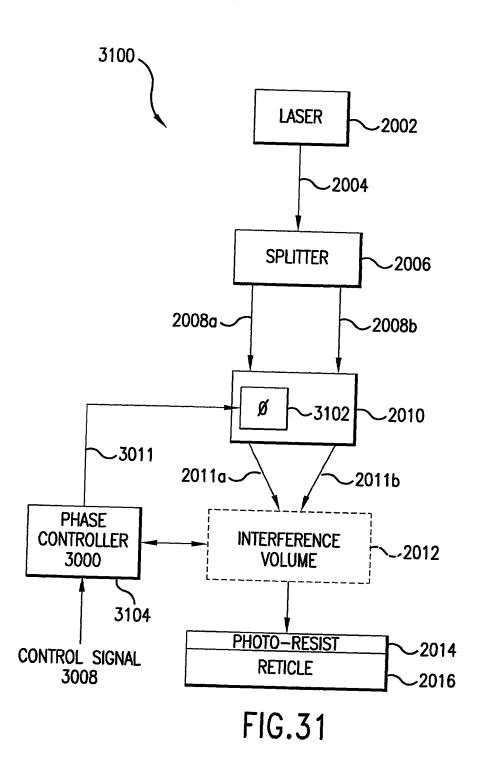


FIG.29A









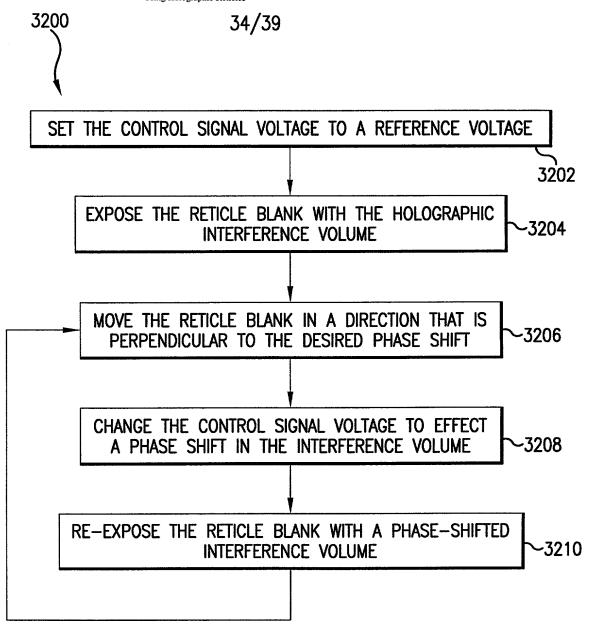


FIG.32

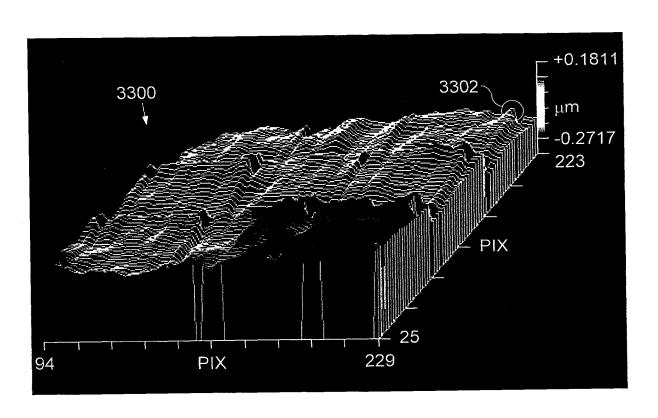
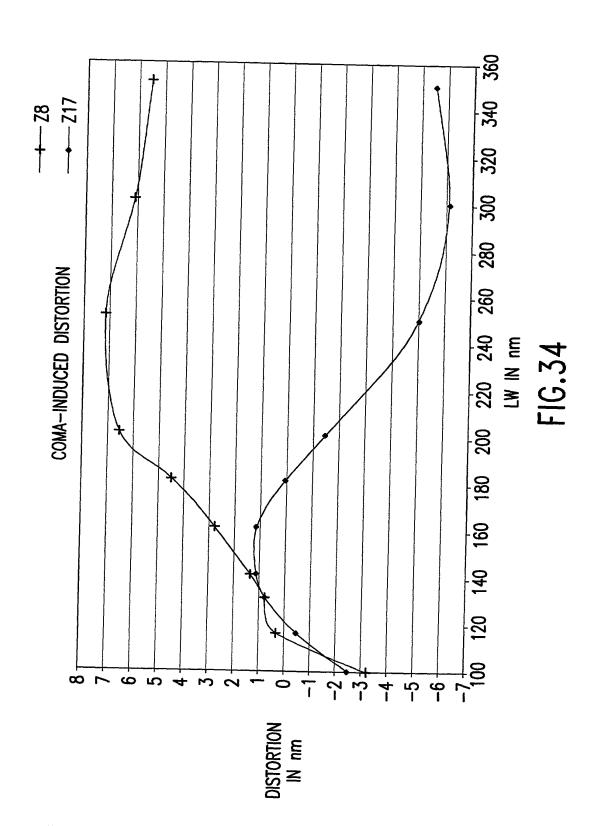
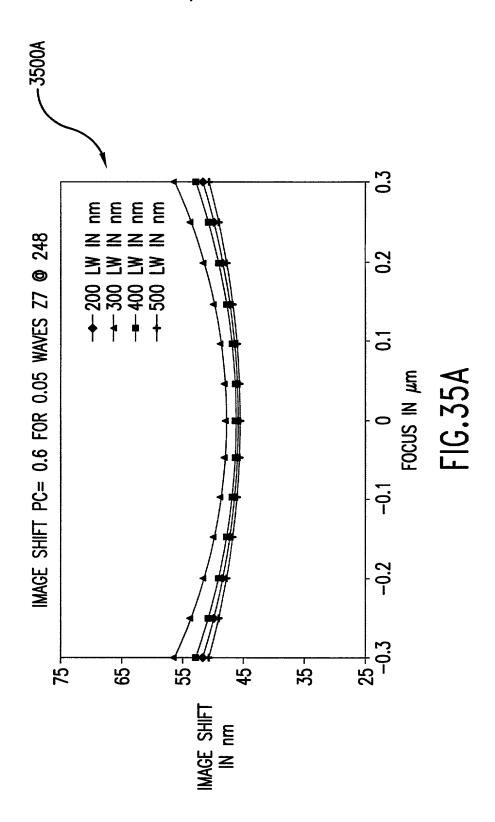
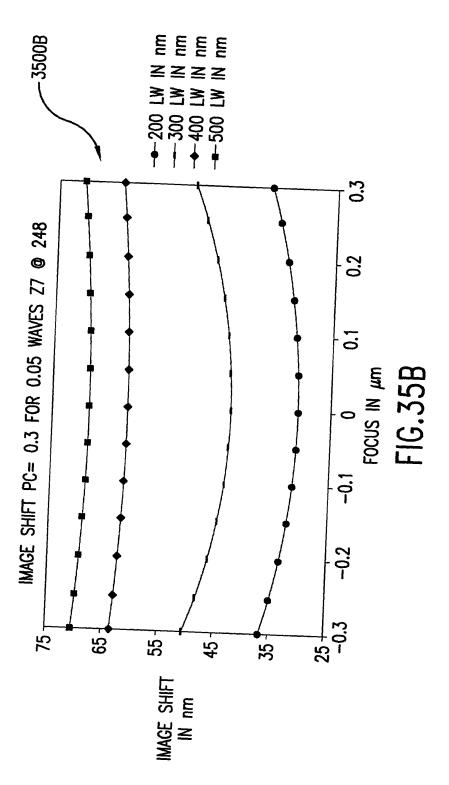


FIG.33

Using Holographic Reticles







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	DIFFRACTION ORDER			
LINEWIDTH	1ST	2ND	3RD	4TH
100 nm	a			
200 nm	b	a		
300 nm	С		a	
400 nm	d	b		a
600 nm	е	С		
800 nm		d	b	
900 nm			С	<u> </u>
1000 nm				<u>b</u>
1200 nm		е	d	<u> </u>

FIG.36